



User's manual



LED Tube Controller

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1. Safety instructions

FOR SAFE AND EFFICIENT OPERATION

Be careful with heat and extreme temperature. Avoid exposing it to direct rays of the sun or near a heating appliance.

Not put it in a temperature below 41°F /5°C, or exceeding 95°F /35°C.

Keep away from humidity, water and dust

Do not place the set in a location with high humidity or lots of dust.

Containers with water should not be placed on the set.

Keep away from sources of hum and noise

Such as transformer motor, tuner, TV set and amplifier.

To avoid placing on un-stable location

Select a level and stable location to avoid vibration.

Do not use chemicals or volatile liquids for cleaning

Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

If out of work, contact sales agency immediately

Any troubles arose, remove the power plug soon, and contact with an engineer for repairing, do not open the cabinet by yourself, it might result a danger of electric shock.

Take care with the power cable

Never pull the power cable to remove the plug from the receptacle, be sure to hold the plug. When not using the player for an extended period of time be sure to disconnect the plug from the receptacle.

2. Introduction

This system consists LED color tube and controller, used for indoor and outdoor full color decorating light project, such as buildings, bridges, square, showroom, stage, shopping center, club or advertising.

3. Technical data

3.1. LED Tube

- 1. Outline Dimension: 1000×50×75mm
- 2. Voltage: 90V/250V, 50/60HZ
- 3. Power: $P \leq 12W$
- 4. Water Proof: IP65

3.2. LED Tube Controller

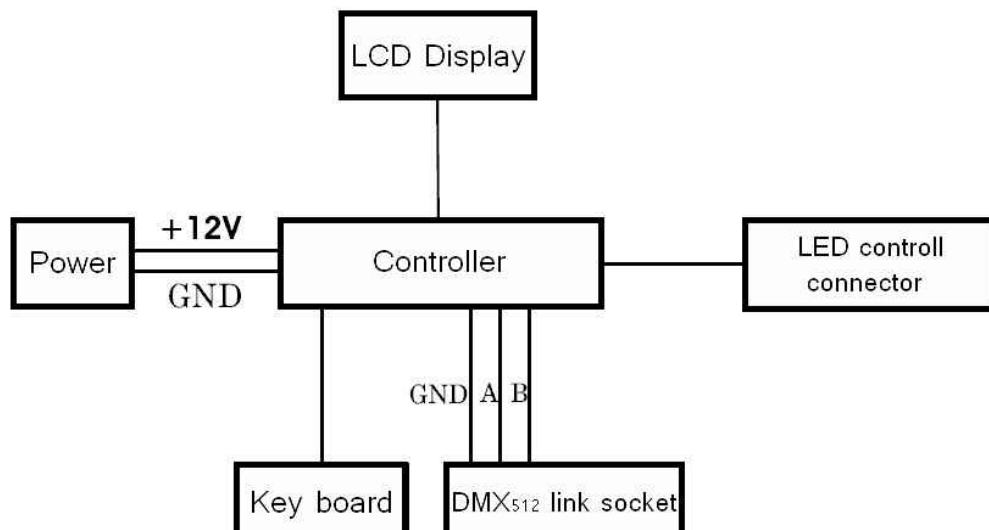
- Outline Dimension: 190×120×50 (mm)
- Voltage: 100V—240V, 50/60HZ
- Power: $P \leq 1W$

4. Functions

4.1. Basic Functions

- 1. Support DMX512 long distance control.
- 2. 31 kinds of modes, each mode can be set with parameter.
- 3. 4000pcs LED tube can be operated by one controller.
- 4. Edit auto mode, select appointed mode.
- 5. Auto store the setting parameter.
- 6. Re-set the preset parameter.

4.2. Structure Map



4.3. Data DMX Wire

Pin 1	GND
Pin 2	DMX –
Pin 3	DMX +

4.4. Button use

The 4 function keys on controller ---MODE,SETUP,UP,DOWN

4.4.1. Mode Key

No.	Display	Discription
1	BLACK	Black
2	STATIC RED	Red
3	STATIC GREEN	Green
4	STATIC BLUE	Blue
5	STATIC YELLOW	Yellow
6	STATIC PURPLE	Purple
7	STATIC CYAN	Cyan
8	STATIC WHITE	White
9	COLOR CHANGE	Changing with 7 colors
10	FLOW CHASE	Slow flow chase
11	COLOR CHASE	More color chase
12	CORUSCAEE RUN	Flicker moving
13	FAST FLOW1	Fast flow chase 1
14	FAST FLOW2	Fast flow chase 2
15	ROLL CHASE	Rolling chase
16	ROLL COLOR	Rolling color
17	MULCOLOR1	Multi color changing 1
18	MULCOLOR2	Multi color changing 2
19	MULCOLOR3	Multi color changing 3
20	STROBE FLOW	Burst flow
21	R & G FLOW	Red & green flow
22	G & B FLOW	Green & blue flow
23	R & B FLOW	Red & blue flow
24	R & G CHASE	Red & green chase
25	R & B CHASE	Red & blue chase
26	Y & P CHASE	Yellow & purple chase
27	SMOOTH CHG1	Smooth slow change 1
28	SMOOTH CHG2	Smooth slow change 2
29	RAINBOW CHASE	Rainbow chase
30	AUTO PROGRAM	Auto run program

31	DMX512 MODE	DMX512 mode
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4.4.2. Setup key

No.	Display	Discription	
		Max	Min
1	INTERVAL	100	0
2	RUN SPEED	100	0
3	FLASH	100	0
4	LOAD DEFAULT		
5	AUTO SELECT	YES / NO	
6	TUBE QTY	4000	0
7	DMX512 ADDR	512	1

4.4.3. UP:

Increase parameter/reset parameter (enter SETUP to confirm)

4.4.4. DOWN

Decrease parameter/reset parameter (enter SETUP to confirm)

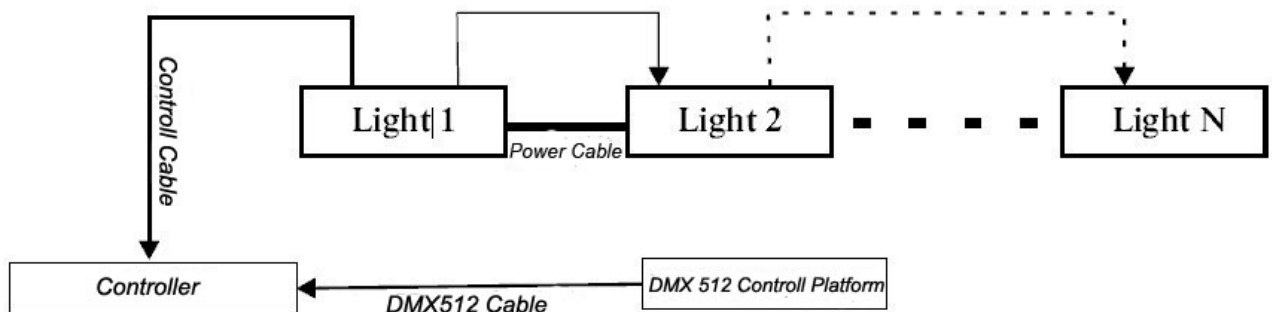
4.4.5.

Preset parameter: each kind with its own parameter stored in the controller. LOAD DEFAULT can get back factory parameter. Under AUTO PROGRAM mode, use LOAD DEFAULT can renew all kinds of parameter by factory.

4.4.6. AUTO SELECT:

Run the selected kinds under AUTO PROGRAM mode.

5. Wire Linking Map



NOTE:

In DMX512 MODE, total 4 route signals can be received. The initiating ADD adjusted by UP, DOWN(1-512), Preset initiating ADD is 1. Each controller occupies 4 DMX512 ADD.

5.1. Functions of the Controller

No.1 Route DMX512 (0-255)control 29 kinds as below table:

No	Numeral	Display	Discription
1	0□8	BLACK	Black
2	0□17	STATIC RED	Red
3	18□26	STATIC GREEN	Green
4	27□35	STATIC BLUE	Blue
5	36□42	STATIC YELLOW	Yellow
6	43□51	STATIC PURPLE	Purple
7	52□60	STATIC CYAN	Cyan
8	61□69	STATIC WHITE	White
9	70□78	COLOR CHANGE	7 color change
10	79□87	FLOW CHASE	Slow flow chase
11	88□96	COLOR CHASE	Color chase
12	97□105	CORUSCAEE RUN	Flicker Run
13	106□114	FAST FLOW1	Fast Flow Chase1
14	115□123	FAST FLOW2	Fast Flow Chase2
15	124□132	ROLL CHASE	Roll Chase
16	133□141	ROLL COLOR	Roll Color
17	142□150	MULCOLOR1	Multi Color Shift1
18	151□159	MULCOLOR2	Multi Color Shift2
19	160□168	MULCOLOR3	Multi Color Shift3
20	169□177	STROBE FLOW	Strobe Flow
21	178□186	R & G FLOW	Red & Green Flow
22	187□195	G & B FLOW	Green & Blue Flow
23	196□204	R & B FLOW	Red & Blue Flow
24	205□213	R & G CHASE	Red & Green Chase
25	214□222	R & B CHASE	Red & Blue Chase
26	223□231	Y & P CHASE	Yellow PurpleChase
27	232□240	SMOOTH CHG1	Smooth change 1
28	241□249	SMOOTH CHG2	Smooth change 2
29	250□255	RAINBOW CHASE	Rainbow Chase

No.2 route control speed

Number	Speed
0	0
255	100

No.3 route control speed

Number	Speed
0	0
255	100

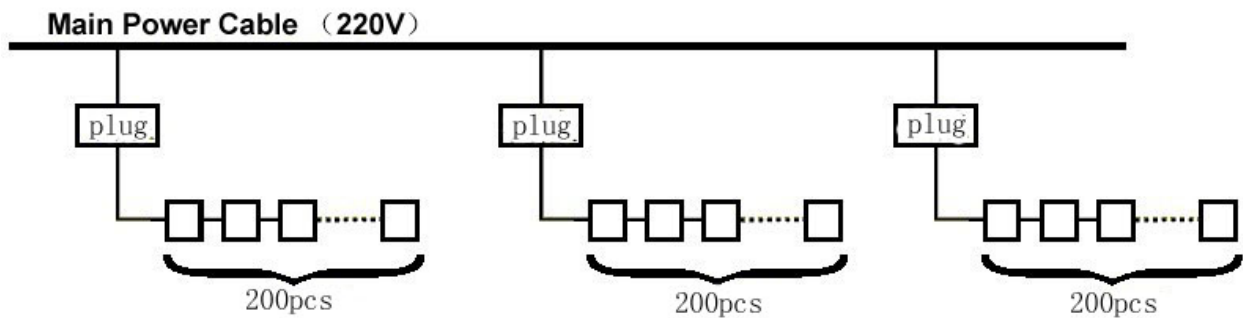
No.4 route control flash

Number	Speed
0	0
255	100

6. Caution

1. Unit avoid thunder areas, strong magnetic field and high pressure.
2. Normally controller used indoor, if in need of outdoor, please prevent rain or water.
3. Power cable rated 10A, if power load in series connection is over 10A, it needs extra jack (in 220VAC, power cable only can link not more than 200pcs tubes, in 110VAC,max 100pcs tubes)

6.1.Installation of power cable 230V



7. Trouble shooting

Appearance	Analysis	Method
All tube not lighting	1 Plug no electricity 2 No signal come from control platform 3 No 1 tube not work 4 Control platform in black mode	1 change the plug 2 change the control platform 3 change the first tube 4 change lighting mode
Former parts lit,back parts not lit	1 tubes quantity by controller not right set 2 the loose connection of data cable or power cable 3 tube between the lit and unlit joint has trouble	1 change the tube numbers on control platform 2 tighten the cable joint or change the lit and unlit neighbor tubes 3 change the lit and unlit tubes
only mid part tubes unlit	board trouble in that place	change the unlit tube
one part unlit or color not equal in 1 tube	tube trouble	change tube
not stable,out of control by platform	1 controller trouble 2 strong signal jamming in area 3 over load of cable	1 change controller 2 reduce the jamming 3 increase load of cable and extra plugs,decrease quantity of tubes

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